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2	<input type="checkbox"/>	<input type="checkbox"/>	US 6957287	20051018	10	Asynchronous/synchronou	710/72	710/10;
			B2			s KVM switch for conso		710/16
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6928118	20050809	15	Device and method for	375/240.21	375/240.2
			B1			displaying video		
4	<input type="checkbox"/>	<input type="checkbox"/>	US 6765543	20040720	33	Display	345/1.1	345/156;
			B1					345/213;
5	<input type="checkbox"/>	<input type="checkbox"/>	US 6691188	20040210	13	Method of matching	710/62	710/72
			B2			cables and monitor for		
6	<input type="checkbox"/>	<input type="checkbox"/>	US 6671756	20031230	26	KVM switch having a	710/73	710/220;
			B1			uniprocessor that accom		710/62
7	<input type="checkbox"/>	<input type="checkbox"/>	US 6639793	20031028	9	Video/audio module for	361/686	248/346.0
			B2			a flat-panel displav		;
8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6557170	20030429	14	Keyboard, mouse, video	725/130	345/168;
			B1			and power switching app		710/72;
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



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Holand, O. Achyami, A.H.
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Volume: 5, Issue: 3

On page(s): 274 - 287

ISSN: 1536-1233

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Abstract

To facilitate upgrades to software, firmware, or FPGA functionality in terminals, over-the-air downloads can provide in-the-field solutions. For mobile terminals, over-the-air downloads provide a security-conscious option due to the ubiquitous availability of the radio interface as they guarantee that the upgrade will be performed if the terminal is to be allowed to use the operator's network. Ensuring system stability through urgent upgrades, this provides a degree of certainty which has hitherto not been present in other forms of downloads. In this paper, we concentrate on mass-upgrades, as might apply to an OS, codec, or urgent security upgrade in a number of terminals concurrently. We investigate relative performances of a range of one-to-many reliable data transfer techniques. Based on these performances, we introduce a unified protocol, able to dynamically switch between the one-to-many download methods many-unicast, multicast, and broadcast during a file download, thereby achieving enhanced performance of the mass-upgrade download from both user and system perspectives, as well as from the perspectives of other users in the network, which have to share the same resources as the one-to-many download.

Index Terms

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Mobile communication systems multicast protocol architecture support services.

Author Keywords

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